Claims

1. A conveyor system comprising:

a first pin (18);

a first link block (11) carrying the first pin (18);

a first offset bushing (17) on the first pin (18);and

a second link block (11) carrying the first offset bushing (17), the second link block (11) movable with respect to the first link block (11) upon rotation of the first offset bushing (17) with respect to the second link block (11).

2. The system as claimed in claim 1 further comprising:

a plurality of pins (18);

a plurality of offset bushings (17) on the plurality of pins (18);

a plurality of link blocks (11), each carrying an offset bushing (17) at one end and carrying a pin (18) at the other end;

the first link block (11) connected to one of the plurality of link blocks (11) by carrying one of the plurality of pins (18);

the second link block (11) connected to one of the plurality of link blocks (11) by carrying the one of the plurality of the plurality of offset bushings (17) to form at least one of a two dimensional curve chain assembly, a three dimensional curve chain assembly, and a combination thereof, said one of the plurality of the plurality of offset bushings allowing tensioning control of the conveyor system.

3. The system as claimed in claim 1 wherein:

the first offset bushing (17) has a conical surface provided therein; and

the first pin (18) has a conical surface provided thereon for engaging with the conical surface to move the first link block (11) relative to the second link block (11).

4. The system as claimed in claim 1 further comprising:

a spherical ball bushing (25) on the first pin (18); and

the first offset bushing (17) having a spherical opening associated therewith for carrying the spherical ball bushing (25) for multi-directional movement of the first link block (11) relative to the second link block (11).

5. The system as claimed in claim 1 further comprising:

bushings (19,20) in the second link block (11) for supporting the first pin (18);

a spherical ball bushing (25) on the first pin (18); and

the first offset bushing (24) having a spherical opening provided therein for carrying the spherical ball bushing (25) for multi-directional movement of the first link block (11) relative to the second link block (11).

6. The system as claimed in claim 1 further comprising:

a spherical ball bushing (25) on the first pin (18); and

the first offset bushing (24) having a spherical opening provided therein, the first offset bushing (24) requiring no lubrication for movement of the spherical ball bushing (25) or for movement in the second link block (11).

7. The system as claimed in claim 1 further comprising:

a guide wheel (10) on the first pin (18); and

a raceway (6) for guiding the guide wheel (10) in movement of at least two dimensional, three dimensional, and a combination of two and three dimensional directions.

8. The system as claimed in claim 1 further comprising:

a slat (4); and

connectors for connecting the slat (4) to the first link block (11) in a fixed position relative thereto.

9. The system as claimed in claim 1 further comprising:

a slat (4);

a slat support member (3) having a wheel (8) provided thereon;

connectors for connecting the slat (4) to the slat support member (3) and to the first link block (11); and

a raceway (6) for guiding the wheel (8) in movement of at least two dimensional, three dimensional, and a combination of two and three dimensional directions.

10. The system as claimed in claim 1 further comprising:

a slat (4);

a guide wheel (10) on the first pin (18), the first pin(18) at an angle to the slat (4); and

connectors for connecting the slat (4) to the first link block (11) in a fixed position relative thereto.